

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior art versions, and listings, of claims in the application:

Claims 1-126 have been canceled, without prejudice.

127. (New) Apparatus for controlling the run of a vehicle, comprising a steering arrangement, suitable for allowing said vehicle to be directed along a given trajectory, and a speed control arrangement, suitable for modifying the running speed of said vehicle, wherein said speed control device comprises a first shaft slidably coupled with a second shaft and actuatable by means of said steering arrangement.

128. (New) Apparatus according to claim 127, wherein said first shaft is telescopically coupled with said second shaft.

129. (New) Apparatus according to claim 127, wherein any relative rotation between said first shaft and said second shaft is substantially prevented.

130. (New) Apparatus according to claim 127, wherein said first shaft is fixed to a steering wheel of said steering arrangement.

131. (New) Apparatus according to claim 127, wherein said first shaft comprises a tubular end portion suitable for shapingly coupling with said second shaft.

132. (New) Apparatus according to claim 131, wherein said first shaft is associated with said tubular end portion by means of a grooved surface.

133. (New) Apparatus according to claim 127, wherein said first shaft is rotatably arranged inside a ring.

134. (New) Apparatus according to claim 133, wherein said ring is so configured as to be capable of being translated together with said first shaft, when a driver of said vehicle moves said steering arrangement in a first direction.

135. (New) Apparatus according to claim 134, wherein said ring is connected to actuating rod cooperating with a pump suitable for circulating a fluid inside a braking circuit.

136. (New) Apparatus according to claim 135, wherein said actuating rod is slidably coupled with a stem.

137. (New) Apparatus according to claim 136, wherein said stem comprises an abutting element arranged for enabling said actuating rod to move said stem only when said actuating rod moves in said first direction.

138. (New) Apparatus according to claim 136, wherein a lever interacting with a piston of said pump is hinged on said stem.

139. (New) Apparatus according to claim 127, wherein said first shaft is housed inside a hollow support intended for being arranged in a fixed position on said vehicle.

140. (New) Apparatus according to claim 139, and further comprising an acceleration device actuatable by said first shaft when said first shaft interacts with said hollow support.

141. (New) Apparatus according to claim 140, wherein said acceleration device comprises a position sensor arranged for detecting an axial position of said steering arrangement.

142. (New) Apparatus according to claim 141, and further comprising a processing card arranged for actuating a valve suitable for intervening on a fuel entering an engine device of said go-cart, said processing card acting on said valve according to said axial position.

143. (New) Apparatus according to claim 141, wherein said position sensor is selected from a group comprising: an encoder, a potentiometer.

144. (New) Apparatus according to claim 140, wherein said position sensor is associated with a gear wheel actuatable by a rack connected with said first shaft.

145. (New) Apparatus according to claim 144, and further comprising a microswitch element interacting with said rack in a preset reference position of said rack.

146. (New) Apparatus according to claim 139, and further comprising a guide device arranged for keeping said first shaft guided in its movement in relation to said second shaft.

147. (New) Apparatus according to claim 146, wherein said guide device comprises a guide wheel fixed to said hollow support and interacting with a guide bar associated with said first shaft.

148. (New) Apparatus according to claim 127, wherein said second shaft can be coupled with a steering column through a joint.

149. (New) Go-cart, comprising a steering arrangement, suitable for directing said go-cart along a given trajectory, and a speed control device, suitable for modifying the running speed of said go-cart, wherein said speed control device is so configured as to interact with said steering arrangement.

150. (New) Go-cart according to claim 149, wherein said steering arrangement comprises a steering wheel and a steering column between which a joint member is placed that is suitable for enabling said steering wheel to be positioned according to a tilt that is substantially independent of said steering column.

151. (New) Go-cart according to claim 149, wherein said speed control device comprises a braking device that can be actuated when said steering arrangement is moved in a first direction and an acceleration device that can be actuated when said steering arrangement is moved in a second direction opposite said first direction.

152. (New) Go-cart according to claim 150, wherein said speed control device comprises a braking device that can be actuated when said steering arrangement is moved in a first direction and an acceleration device that can be actuated when said steering arrangement is moved in a second direction opposite said first direction.

153. (New) Go-cart according to claim 152, wherein, when said steering wheel is displaced towards a driver it activates said acceleration device, and vice versa.

154. Go-cart according to claim 152, wherein said acceleration device comprises a cable actuatable through said steering arrangement and cooperating with a valve suitable for intervening on a fuel entering an engine device of said go-cart.

155. (New) Go-cart according to claim 152, wherein said acceleration device comprises position sensor arranged for detecting an axial position of said steering arrangement.

156. (New) Go-cart according to claim 155, and further comprising a processing card arranged for actuating a valve suitable for intervening on a fuel entering an engine device of said go-cart, said processing card acting on said valve according to said axial position.

157. (New) Go-cart according to claim 155, wherein said position sensor is selected from a group comprising: an encoder, a potentiometer.

158. (New) Go-cart according to claim 155, wherein said position sensor is associated with a gear arrangement that can be actuated by said steering arrangement.

159. (New) Go-cart according to claim 152, wherein, when said steering wheel is moved away from a driver, said steering wheel activates said braking device, and vice versa.

160. (New) Go-cart according to claim 152, wherein said braking device comprises an actuating rod cooperating with a pump suitable for circulates a fluid in a braking circuit.

161. (New) Go-cart according to claim 160, wherein said actuating rod is slidably coupled with a stem.

162. (New) Go-cart according to claim 161, wherein said stem comprises an abutting element arranged for enabling said actuating rod to move said stem only when said actuating rod moves in a preset direction.

163. (New) Go-cart according to claim 161, wherein on said stem a lever is hinged, said lever interacting with a piston of said pump.

164. (New) Go-cart according to claim 160, and further comprising a support structure for supporting said pump, said support structure being provided with a support plane suitable for receiving said pump resting on said support plane, in order to maintain said pump in a position that is substantially parallel to a surface on which said go-cart moves.

165. (New) Go-cart according to claim 164, wherein said support structure comprises an anchor wall, to which said pump can be fixed.

166. (New) Go-cart according to claim 164, wherein said support structure comprises a fixing element suitable for allowing said support structure to be fixed to a structural element of said go-cart.

167. (New) Go-cart according to claim 166, wherein said fixing element comprises an arm provided with a clamp that can be fixed to said structural element.

168. (New) Go-cart according to claim 163, wherein said support structure comprises at least one stiffening member suitable for increasing the bending and/or torsional stiffness of said support structure.

169. (New) Go-cart according to claim 152, wherein said braking device and said acceleration device are connected with a movable member connected with said steering wheel.

170. (New) Go-cart according to claim 169, wherein said movable member comprises a sleeve axially movable along a steering shaft.

171. (New) Go-cart according to claim 169, wherein said speed control device further comprises a guide system arranged for guiding said movable member together with a shaft fixed to said steering wheel, at the same time preventing rotation between said movable member and said shaft.

172. (New) Go-cart according to claim 171, wherein said guide system comprises a grooved surface placed between said movable member and said shaft.

173. (New) Go-cart according to claim 171, wherein said guide system comprises an articulated quadrilateral arrangement that can be actuated by said steering arrangement.

174. (New) Go-cart according to claim 173, wherein said articulated quadrilateral arrangement comprises an articulated parallelogram arrangement.

175. (New) Go-cart according to claim 173, wherein said articulated quadrilateral arrangement comprises a first rocker arm and a second rocker arm arranged for connecting said movable member to a fixed member of said go-cart.

176. (New) Go-cart according to claim 173, wherein said articulated quadrilateral arrangement comprises a first articulated quadrilateral arrangement and a second articulated quadrilateral arrangement arranged on opposite sides of said movable member.

177. (New) Go-cart according to claim 173, wherein said shaft is connected by said joint member to a first end zone of said steering column.

178. (New) Go-cart according to claim 177, wherein said steering column comprises a second end zone connected to a chassis of said go-cart by means of an articulated joint, said articulated joint being arranged for enabling said second end zone to move in relation to said chassis when said articulated quadrilateral arrangement actuates said shaft.

179. (New) Go-cart according to claim 177, and further comprising further articulated joint placed between said steering column and a respective control device for controlling the steering of each wheel of said go-cart.

180. (New) Go-cart according to claim 152, and further comprising manual actuating device arranged for actuating said acceleration device without translating said steering wheel.

181. (New) Go-cart according to claim 180, wherein said manual actuating comprises a further lever mounted on said steering wheel.

182. (New) Go-cart according to claim 150, and further comprising a quick connector arranged for enabling said steering wheel to be detached from, and attached to, a column member of said go-cart.

183. (New) Go-cart according to claim 182, wherein said quick connector is provided with a protruding element suitable for shapingly coupling with a seat made in said column member.

184. (New) Go-cart according to claim 182, wherein said steering wheel is provided with a tubular end suitable for receiving said column member, said tubular end being provided with a hole wherein said quick connector is inserted to lock said steering wheel on said column member.

185. (New) Go-cart according to claim 149, and further comprising a hydraulic drive arrangement arranged for hydraulically modifying the position of wheels of said go-cart.

186. (New) Go-cart according to claim 149, and further comprising a safety sensor arranged for detecting any obstacles near said go-cart and for preventing said go-cart from accelerating.

187. (New) Go-cart provided with a steering arrangement comprising a steering column and a steering wheel by means of which a driver can set a trajectory for said go-cart, wherein between said steering wheel and said steering column a joint member is placed, said joint member being suitable for enabling said steering wheel to be positioned according to a tilt that is substantially independent of said steering column.

188. (New) Go-cart according to claim 187, and further comprising a speed control device, suitable for modifying the running speed of said go-cart and so configured as to interact with said steering arrangement.

189. (New) Go-cart according to claim 187, and further comprising a hydraulic drive arrangement arranged for hydraulically modifying the position of wheels of said go-cart.

190. (New) Go-cart according to claim 187, and further comprising a safety sensor arranged for detecting any obstacles near said go-cart and for preventing said go-cart from accelerating.

191. (New) Go-cart comprising a steering arrangement through which a driver can set a trajectory of said go-cart, said steering arrangement comprising a control device arranged for modifying the position of wheels of said go-cart according to a command from said driver, wherein said control device comprises a hydraulic drive arrangement arranged for hydraulically modifying said position.

192. (New) Go-cart according to claim 191, wherein said hydraulic drive arrangement comprises a hydraulic drive box fed by a pressurised fluid through a pump.

193. (New) Go-cart according to claim 192, wherein said pump is moved by means of a driving shaft of said go-cart.

194. (New) Go-cart according to claim 192, wherein said hydraulic drive box is connected with a steering column of said go-cart by means of a joint.

195. (New) Go-cart according to claim 192, and further comprising articulated-joint elements placed between said hydraulic drive box and a respective tie-rod arranged for steering wheels of said go-cart.

196. (New) Go-cart according to claim 191, and further comprising a safety sensor arranged for detecting any obstacles near said go-cart and for preventing said go-cart from accelerating.

197. (New) Apparatus for controlling the run of a vehicle, comprising a steering arrangement suitable for directing said vehicle along a given trajectory, and a speed control device suitable for modifying the running speed of said vehicle, wherein said speed control device comprises articulated quadrilateral arrangement actuatable by said steering arrangement.

198. (New) Apparatus according to claim 197, wherein said articulated quadrilateral arrangement comprises articulated parallelogram arrangement.

199. (New) Apparatus according to claim 197, wherein said articulated quadrilateral arrangement comprises a movable member connected to a fixed member through a first rocker arm and a second rocker arm, said movable member being associated with a shaft connected to a steering wheel of said steering arrangement.

200. (New) Apparatus according to claim 199, wherein said articulated quadrilateral arrangement comprises a first articulated quadrilateral arrangement and a second articulated quadrilateral arrangement, arranged on opposite sides of said movable member.

201. (New) Apparatus according to claim 199, wherein said shaft is coupled with said movable member in such a way as to enable the relative rotation and substantially prevent the relative translation.

202. (New) Apparatus according to claim 199, and further comprising a steering column having a first end zone connected to said shaft through a joint member, and a second end zone connected to a chassis of said vehicle.

203. (New) Apparatus according to claim 202, wherein between said second end zone and said chassis an articulated joint is provided, said articulated joint being arranged for enabling said second end zone to move in relation to said chassis when said articulated quadrilateral arrangement actuates said shaft.

204. (New) Apparatus according to claim 202, and further comprising a further articulated joint placed between said steering column and a respective control device for controlling the steering of each wheel of said vehicle.

205. (New) Apparatus according to claim 199, wherein to said movable member a braking device and an acceleration arrangement are connected, said braking device being actuatable when said steering arrangement is moved in a first direction and said acceleration device being actuatable when said steering arrangement is moved in a second direction opposite said first direction.

206. (New) Apparatus according to claim 205, wherein said acceleration device comprises a cable actuatable by said movable member and cooperating with a valve suitable for intervening on a fuel entering an engine device of said vehicle.

207. (New) Apparatus according to claim 205, wherein said acceleration device comprises a position sensor arranged for detecting the axial position of said shaft.

208. (New) Apparatus according to claim 207, wherein said position sensor is selected from a group comprising: an encoder, a potentiometer.

209. (New) Apparatus according to claim 207, wherein said position sensor is associated with a gear that can be actuated by said steering arrangement.

210. (New) Apparatus according to claim 205, wherein said braking device comprises an actuating rod cooperating with a pump suitable for circulating a fluid inside a braking circuit.

211. (New) Apparatus according to claim 210, wherein said actuating rod is slidably coupled with a stem.

212. (New) Apparatus according to claim 211, wherein said stem comprises an abutting element arranged for enabling said actuating rod to move said stem only when said rod moves in a preset direction.

213. (New) Apparatus according to claim 211, wherein a lever interacting with a piston of said pump is hinged on said stem.

214. (New) Apparatus according to claim 210, and further comprising a support structure for supporting said pump, said support structure being provided with a support plane suitable for receiving said pump resting on said support plane to maintain said pump in a substantially horizontal position.

215. (New) Apparatus according to claim 214, wherein said support structure comprises an arm provided with a clamp arranged for being fixed to a structural member of said vehicle.

216. (New) Kit for a vehicle, comprising a braking control device suitable for actuating a braking device of said vehicle, and an acceleration control suitable for actuating an acceleration device of said vehicle, said braking control device and said acceleration control device being so configurable as to interact with a steering arrangement of said vehicle.

217. (New) Kit according to claim 216, and further comprising a joint member, suitable for being placed between a steering column and a steering wheel of said a steering arrangement, in such a way as to enable said steering wheel to be positioned according to a tilt that is substantially independent of said steering column.

218. (New) Kit according to claim 216, wherein said acceleration control device comprises a cable suitable for cooperating with a valve, in such a way as to intervene on fuel entering into an engine device of said vehicle.

219. (New) Kit according to claim 216, wherein said acceleration control device comprises a position sensor arranged for detecting an axial position of said steering arrangement.

220. (New) Kit according to claim 216, and further comprising a processing card arranged for actuating a valve suitable for intervening on a fuel entering an engine device of said vehicle, according to said axial position.

221. (New) Kit according to claim 219, wherein said position sensor is selected from a group comprising: an encoder, a potentiometer.

222. (New) Kit according to claim 219, and further comprising a gear arrangement associated with said position sensor and actuatable by said steering arrangement.

223. (New) Kit according to claim 222, wherein said gear arrangement comprises a gear wheel associated with said position sensor and a rack fixed to said steering arrangement and arranged for actuating said gear wheel.

224. (New) Kit according to claim 216, wherein said braking control device comprises an actuating rod cooperating with a pump suitable for supplying a fluid in a brake circuit of said vehicle.

225. (New) Kit according to claim 224, wherein said braking control device comprises a stem suitable for being slidably coupled with said actuating rod.

226. (New) Kit according to claim 225, wherein said stem comprises an abutting element arranged for enabling said actuating rod to move said stem only when said actuating rod moves in a first direction.

227. (New) Kit according to claim 225, wherein said braking control device comprises a lever suitable for being hinged on said stem in such a way as to interact with a piston of said pump.

228. (New) Kit according to claim 224, and further comprising a support structure suitable for supporting said pump.

229. (New) Kit according to claim 228, wherein said support structure comprises a support plane for supporting said pump, said support plane being suitable for receiving said pump resting on said support plane to maintain said pump in a position that is substantially parallel to a surface on which said vehicle moves.

230. (New) Kit according to claim 228, wherein said support structure comprises an anchor wall, to who said pump could be fixed.

231. (New) Kit according to claim 228, wherein said support structure comprises a fixing element suitable for enabling said support structure to be fixed to a chassis of said vehicle.

232. (New) Kit according to claim 231, wherein said fixing element comprises an arm provided with a clamp that can be fixed to say chassis.

233. (New) Kit according to claim 228, wherein said support structure comprises at least one stiffening element suitable for increasing the bending and/or torsional stiffness of said support structure.

234. (New) Kit according to claim 216, and further comprising an articulated quadrilateral arrangement arranged for actuating said braking control device and said acceleration control device by acting on said steering arrangement.

235. (New) Kit according to claim 234, wherein said articulated quadrilateral arrangement comprises an articulated parallelogram arrangement.

236. (New) Kit according to claim 234, wherein said articulated quadrilateral arrangement comprises a first rocker arm and a second rocker arm arranged for connecting to a fixed member of said vehicle a movable member that can be associated to said steering arrangement.

237. (New) Kit according to claim 236, wherein said articulated quadrilateral arrangement comprises a first articulated quadrilateral arrangement and a second articulated quadrilateral arrangement arranged on opposite sides of said movable member.

238. (New) Kit according to claim 217, and further comprising a shaft suitable for being placed between said joint member and said steering wheel.

239. (New) Kit according to claim 238, and further comprising a sleeve axially movable along said shaft.

240. (New) Kit according to claim 239, wherein said braking control device and said acceleration control device are connected with said sleeve.

241. (New) Kit according to claim 239, and further comprising a sustaining element suitable for supporting said sleeve.

242. (New) Kit according to claim 216, and further comprising a first shaft suitable for being slidably coupled with a second shaft of said vehicle to actuate said braking control device and said acceleration control device.

243. (New) Kit according to claim 242, wherein said first shaft is so configured as to be telescopically coupled with said second shaft so that any relative rotation between said first shaft and said second shaft is substantially prevented.

244. (New) Kit according to claim 243, wherein said first shaft is provided with a tubular end portion suitable for shapingly coupling with said second shaft.

245. (New) Kit according to claim 242, and further comprising a ring within which said first shaft is rotatably arranged.

246. (New) Kit according to claim 245, wherein said ring is so configured as to be capable of translating together with said first shaft, when a driver of said vehicle moves said steering arrangement in a first direction.

247. (New) Apparatus for controlling the run of a vehicle, comprising a steering arrangement provided with a first steering column slidable in relation to a second steering column to modify the speed of said vehicle, and further comprising a position sensor suitable for detecting the axial position of said first steering column in relation to said second steering column.

248. (New) Apparatus according to claim 247, wherein said position sensor comprises an encoder.